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1 Practical extraction techniques for Java 77%
Frank Tip , Peter F. Sweeney , Chris Laffra , Aldo Eisma , David Streeter
ACM Transactions on Programming Languages and Systems (TOPLAS) November 2002 Volume 24 Issue 6
Reducing application size is important for software that is distributed via the internet, in order to keep download times manageable, and in the domain of embedded systems, where applications are often stored in (Read-Only or Flash) memory. This paper explores extraction techniques such as the removal of unreachable methods and redundant fields, inlining of method calls, and transformation of the class hierarchy for reducing application size. We implemented a number of extraction techniques in < ...

2 System Presentation -- CARIBOO: An induction based proof tool for termination with strategies 80%
Olivier Fissore , Isabelle Gnaedig , Hélène Kirchner
Proceedings of the Fourth ACM SIGPLAN Conference on Principles and Practice of Declarative Programming October 2002
We describe Cariboo, the implementation of an inductive process recently proposed to prove termination of rewriting under strategies on ground term algebras. The method is based on an abstraction mechanism, introducing variables that represent ground terms in normal form, and on narrowing, schematizing reductions on ground terms. It applies in particular to non-terminating systems which are terminating with innermost or local strategies. The narrowing process, well known to easily diverge, is co ...

3 Applications: YouServ: a web-hosting and content sharing tool for the masses 77%
Roberto J. Bayardo Jr. , Rakesh Agrawal , Daniel Gruhl , Amit Somani
Proceedings of the eleventh international conference on World Wide Web May 2002
YouServ is a system that allows its users to pool existing desktop computing resources for *high availability* web hosting and file sharing. By exploiting standard web and internet protocols (e.g.

HTTP and DNS), YouServ does not require those who access YouServ-published content to install special purpose software. Because it requires minimal server-side resources and administration, YouServ can be provided at a very low cost. We describe the design, implementation, and a successful intrane ...

4 The evolution of Coda 77%

M. Satyanarayanan

ACM Transactions on Computer Systems (TOCS) May 2002
Volume 20 Issue 2

Failure-resilient, scalable, and secure read-write access to shared information by mobile and static users over wireless and wired networks is a fundamental computing challenge. In this article, we describe how the Coda file system has evolved to meet this challenge through the development of mechanisms for server replication, disconnected operation, adaptive use of weak connectivity, isolation-only transactions, translucent caching, and opportunistic exploitation of hardware surrogates. For eac ...

5 xlinkit: a consistency checking and smart link generation service 77%

Christian Nentwich , Licia Capra , Wolfgang Emmerich , Anthony Finkelstein

ACM Transactions on Internet Technology (TOIT) May 2002
Volume 2 Issue 2

xlinkit is a lightweight application service that provides rule-based link generation and checks the consistency of distributed Web content. It leverages standard Internet technologies, notably XML, XPath, and XLink. xlinkit can be used as part of a consistency management scheme or in applications that require smart link generation, including portal construction and management of large document repositories. In this article we show how consistency constraints can be expressed and checked. We des ...

6 Technical Session: Supporting ubiquitous computing through directory enabled technologies 77%

Michael Richichi , Paul Coen

Proceedings of the 29th annual ACM SIGUCCS conference on User services October 2001

Drew has been providing computers to students since 1984. Many universities have ubiquitous computing programs where students receive a laptop computer as part of their educational package. These programs reduce the dependence on and management issues of traditional computer labs, and allow 24x7 computing access to every student at the University. Drew also provides Novell Directory Services (NDS) accounts to all of these students, and utilizes Novell ZENworks to customize software, personalize ...

7 EROS: a fast capability system 77%

Jonathan S. Shapiro , Jonathan M. Smith , David J. Farber

ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles December 1999
Volume 33 Issue 5

EROS is a capability-based operating system for commodity processors which uses a single level storage model. The single level store's persistence is transparent to applications. The performance consequences of support for transparent persistence and capability-based architectures are generally believed to be negative. Surprisingly, the basic operations of EROS (such as IPC) are generally comparable in cost to similar operations in conventional systems. This is demonstrated with a set of microbe ...

8 Digest of proceedings seventh IEEE workshop on hot topics in operating systems March 29-30 1999, Rio Rico, AZ 77%
M. Satyanarayanan
ACM SIGOPS Operating Systems Review October 1999
Volume 33 Issue 4
The Seventh IEEE Workshop on Hot Topics in Operating Systems was held on March 29-30 1999 at the Rio Rico Resort & Country Club, south of Tucson, Arizona. The General Chair, Peter Druschel, and the Local Arrangements Chair, John Hartman, had gone to considerable effort to make the operation of the workshop smooth and pleasant for the participants. The secluded desert locale, the effect of brilliant sunshine and blue skies on winter-jaded northerners, and the enthusiasm and energy of the ...

9 A distributed scientific data archive using the Web, XML and SQL/MED 77%
Mark Papiani , Jasmin L. Wason , Alistair N. Dunlop , Denis A. Nicole
ACM SIGMOD Record September 1999
Volume 28 Issue 3
We have developed a web-based architecture and user interface for fast storage, searching and retrieval of large, distributed, files resulting from scientific simulations. We demonstrate that the new DATALINK type defined in the draft SQL Management of External Data Standard can help to overcome problems associated with limited bandwidth when trying to archive large files using the web. We also show that separating the user interface specification from the user interface processing can prov ...

10 Workshop on compositional software architectures: workshop report 77%
ACM SIGSOFT Software Engineering Notes May 1998
Volume 23 Issue 3

11 Fast detection of communication patterns in distributed executions 77%
Thomas Kunz , Michiel F. H. Seuren
Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research November 1997
Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

12 Unified versioning through feature logic 77%
Andreas Zeller , Gregor Snelting
ACM Transactions on Software Engineering and Methodology (TOSEM) October 1997
Volume 6 Issue 4
Software configuration management (SCM) suffers from tight coupling between SCM version-ing models and the imposed SCM processes. In order to adapt SCM tools to SCM processes, rather than vice versa, we propose a unified versioning model, the version set model. Version sets denote versions, components, and configurations by feature terms, that is, Boolean terms over (feature : value)-attributions. Through feature logic, we ...

13 The design of a portable scientific tool: a case studying using SnB 77%
Steven M. Gallo , Russ Miller , Charles M. Weeks
Proceedings of the 1996 ACM/IEEE conference on Supercomputing (CDROM) November 1996
Developing and maintaining a large software package is a complex task. Decisions are made early in the design process that affect i) the ability of a user to effectively exploit the package and ii) the ability of a software engineer to maintain it. This case study discusses issues in software development and maintainability of a scientific package called SnB, which is used to determine molecular crystal structures. The design of the user interface is discussed along with important software ...

14 The business of application portability 77%
David Rowley
StandardView June 1996
Volume 4 Issue 2

15 Pen computing: a technology overview and a vision 77%
André Meyer
ACM SIGCHI Bulletin July 1995
Volume 27 Issue 3
This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

16 A window-based help, tutorial and documentation system 77%
Jean-Marie Comeau , Peter R. Milton
Proceedings of the 11th annual international conference on Systems documentation November 1993

17 ECCS and LIPS: two languages for OSI systems specification and verification 77%
V. Carchiolo , A. Di Stefano , A. Faro , G. Pappalardo
ACM Transactions on Programming Languages and Systems (TOPLAS) April 1989
Volume 11 Issue 2
An issue of current interest in the Open Systems Interconnection (OSI) field is the choice of a language well suited to specification and verification. For this purpose, two languages based on Milner's communication calculi are proposed, respectively intended for the specification of asynchronous and synchronous OSI systems. A formal verification method, relying upon the algebraic foundations of the two languages, is introduced and illustrated by means of examples based on nontrivial protoc ...

18 CommonObjects: an overview 77%
Alan Snyder
ACM SIGPLAN Notices , Proceedings of the 1986 SIGPLAN workshop on Object-oriented

programming June 1986
Volume 21 Issue 10

19 A functional shell 77%
Jon Shultis
Proceedings of the 1983 ACM SIGPLAN symposium on Programming language issues in software systems June 1983
One of the best features of the standard UNIX shell is the use of pipes to compose programs. A C language derivative is used for more complex program combinations involving looping or branching. This paper presents an alternative shell language based on natural extensions of the pipe concept. “Structured data streams” are introduced as a means of expressing potentially concurrent processing, and “labelled data streams” serve to route data to one of a pool ...

20 Interactive Editing Systems: Part I 77%
Norman Meyrowitz , Andries van Dam
ACM Computing Surveys (CSUR) September 1982
Volume 14 Issue 3

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Patent Assignment Abstract of Title

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PCT #: NONE **Publication #:** NONE **Pub Dt:**

Inventors: Seog Yeon Han, Seung Hoon Lee, Kang-Soo Seo, Soung-Hyun Um

Title: File managing method for a digital data stream

Assignment: 1

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